

Assignment 1

COMP3074 F2024

AI Usage Declaration

AI Usage Declaration Submission Instructions

When completing your assignment, you must download and fill out the "AI Usage Declaration" form for each assignment where AI use is permitted. Once completed, convert the form to a PDF and **save it as aud.pdf**. Submit this PDF along with your assignment. This declaration is required to confirm your appropriate use of AI tools, and failure to submit it will result in a zero for the assignment. Ensure all information provided is accurate and aligns with the academic integrity guidelines.

Student Information

- Name: Breno Lopes Mafra
- Student ID: 101485572
- Course Code: COMP3074

Assessment Information

- Assessment Name: *Assignment 1*
- Submission Date: October 19, 2025

(Add * for those applicable)

AI Tool(s) Used:

- ChatGPT *
- Copilot
- DALL-E
- Other: [Specify]

Purpose of AI Usage:

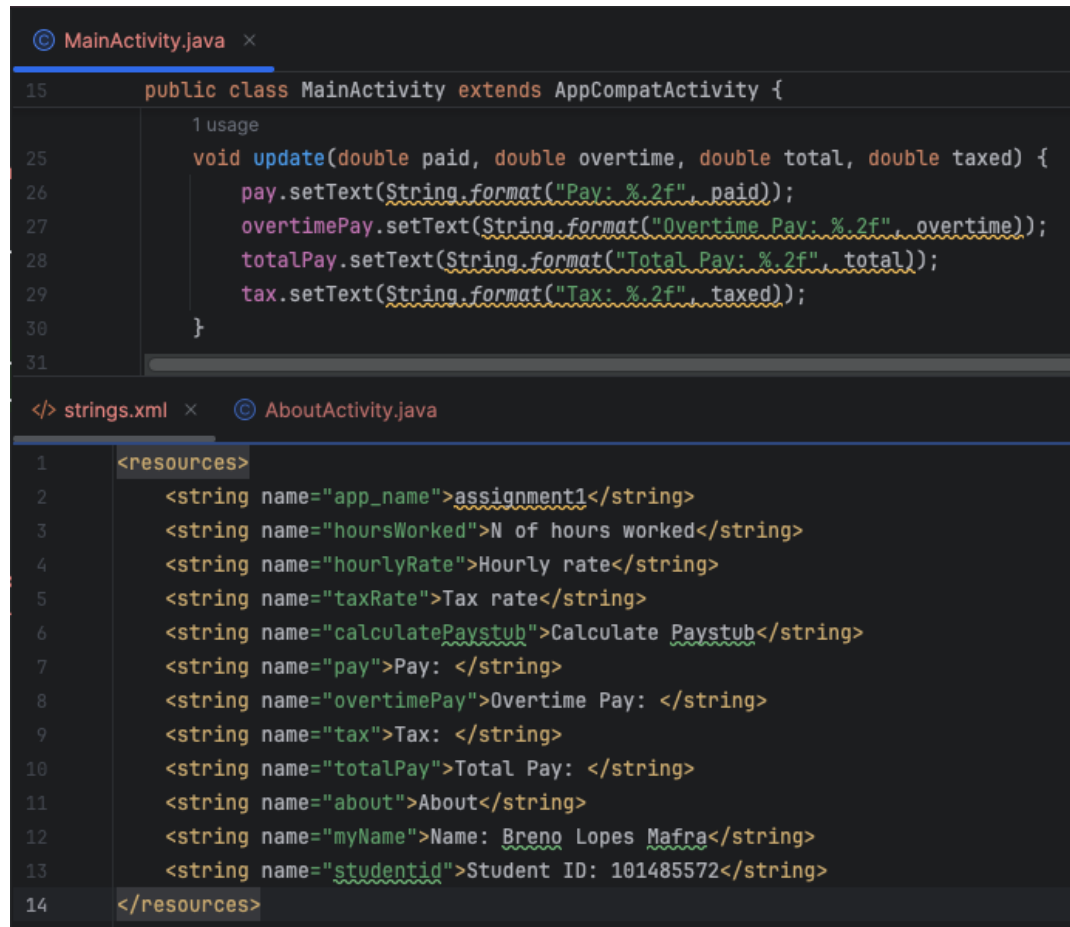
(Select the primary purposes for which AI was used in this assessment)

- Idea Generation
- Writing Assistance*
- Image Creation
- Coding/Programming*
- Language Refinement
- Other: [Specify]

Details of AI-Generated Content:

(Provide brief examples or descriptions)

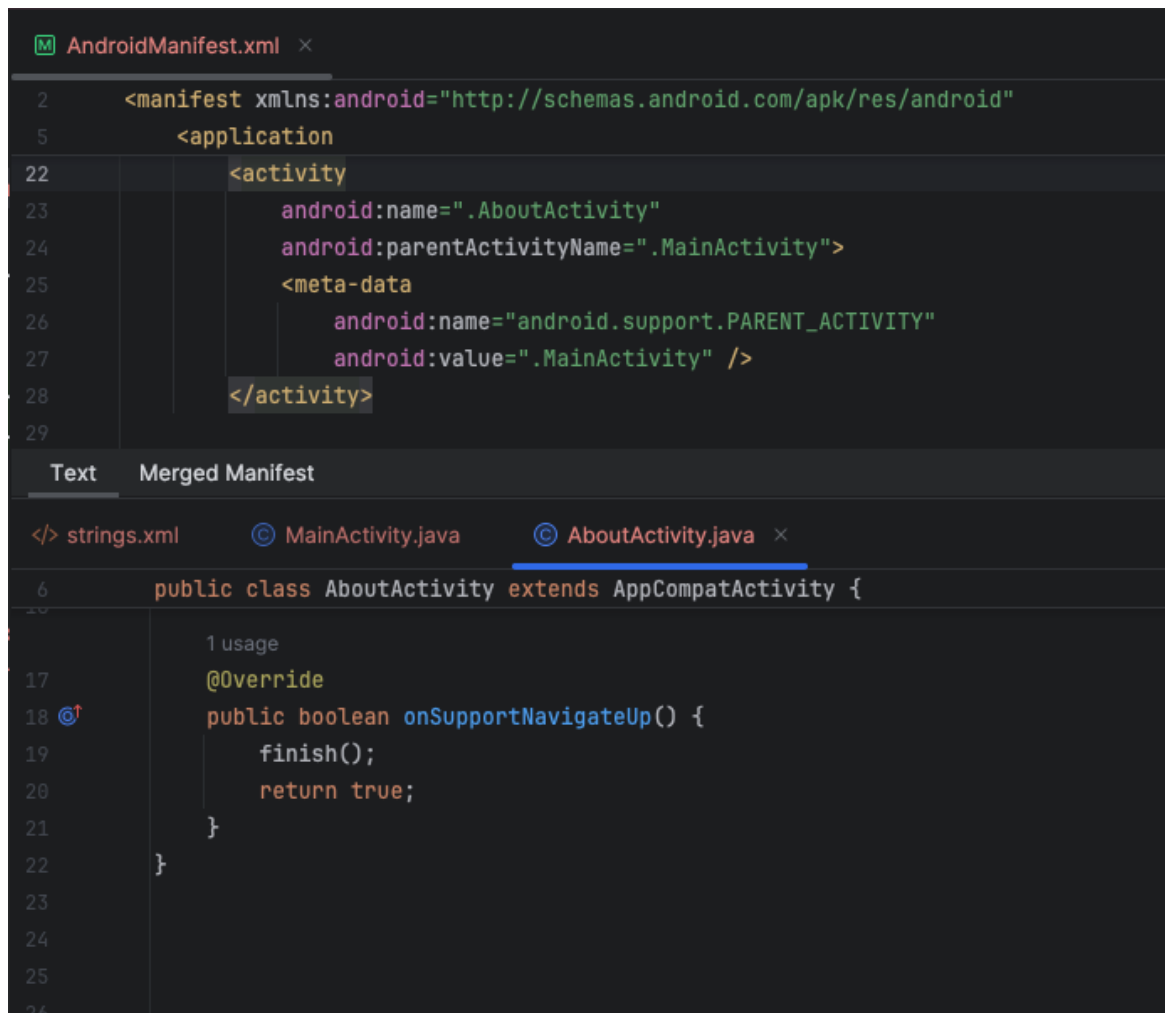
- **Example 1:** I was facing a problem correcting the numeric output formatting with %.2f. The tool helped me realize that the placeholders defined in strings.xml were being displayed in the interface before the calculation, and suggested that the formatting should be applied directly inside the update() function, as follows in the image:



```
© MainActivity.java x
15 public class MainActivity extends AppCompatActivity {
    1 usage
25 void update(double paid, double overtime, double total, double taxed) {
26     pay.setText(String.format("Pay: %.2f", paid));
27     overtimePay.setText(String.format("Overtime Pay: %.2f", overtime));
28     totalPay.setText(String.format("Total Pay: %.2f", total));
29     tax.setText(String.format("Tax: %.2f", taxed));
30 }
31

</> strings.xml x © AboutActivity.java
1 <resources>
2     <string name="app_name">assignment1</string>
3     <string name="hoursWorked">N of hours worked</string>
4     <string name="hourlyRate">Hourly rate</string>
5     <string name="taxRate">Tax rate</string>
6     <string name="calculatePaystub">Calculate Paystub</string>
7     <string name="pay">Pay: </string>
8     <string name="overtimePay">Overtime Pay: </string>
9     <string name="tax">Tax: </string>
10    <string name="totalPay">Total Pay: </string>
11    <string name="about">About</string>
12    <string name="myName">Name: Breno Lopes Mafra</string>
13    <string name="studentid">Student ID: 101485572</string>
14 </resources>
```

- **Example 2:** I was not sure about how to end an activity and go back to the previous activity without creating more and more instances. The used AI helped me to understand, so I could discover how to use the `onSupportNavigateUp()` method using `finish()` and to configure the `AndroidManifest.xml` with the `PARENT_ACTIVITY` meta-data for proper navigation as follows in the image:



The screenshot shows an IDE with two files open. The top file is `AndroidManifest.xml`, which contains the following XML code:

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    <application
        <activity
            android:name=".AboutActivity"
            android:parentActivityName=".MainActivity">
                <meta-data
                    android:name="android.support.PARENT_ACTIVITY"
                    android:value=".MainActivity" />
            </activity>
```

The bottom file is `MainActivity.java`, which contains the following Java code:

```
public class AboutActivity extends AppCompatActivity {
    1 usage
    @Override
    public boolean onSupportNavigateUp() {
        finish();
        return true;
    }
}
```

Review and Refinement:

(Select the actions taken to refine AI output)

- Edited AI-generated content for accuracy*
- Cross-checked AI output with reliable sources
- Made significant changes to AI-generated text or images*
- Other: [Specify]

Quality Assurance and Ethical Considerations:

(Briefly describe how you ensured the quality and ethical use of AI)

Quality Check: I have also searched the documentation to see which functions I could use, I checked how many arguments each function could support to fit me code needs.

Ethical Use: I edited all AI content generated to fit my code and made a lot of changes in the structure to ensure authenticity.

Reflection on AI Usage:

(Briefly reflect on your experience using AI)

Reflection: AI helped me to move forward with my code and also taught me how to use different functions in mobile applications, with varying ways of thinking.

AI Usage Declaration

I, [**Breno Lopes Mafra**] [**101485572**], declare that the information provided in this AI Usage Declaration is accurate and truthful. I have adhered to the academic integrity guidelines and properly referenced all AI-generated content used in this assessment.

Original Work Declaration

- I declare that the work submitted is my own and that AI was used only as a tool to assist me in its completion.
- I understand that I am responsible for the content and quality of the work submitted, even if AI was used to generate parts of it.